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In re Application of: Richard A. SCHUMACHER et al.

Serial No.: 10/622,833 Group Art Unit: Unassigned

Filed: July 21, 2003 Examiner: Unassigned

For: PHOSPHODIESTERASE 4 INHIBITORS, INCLUDING N-SUBSTITUTED ANILINE AND DIPHENYLAMINE ANALOGS

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INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.56, 1.97 and 1.98

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This information disclosure statement is made in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98 as follows:

Timing and Fees

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			three months of the filing date of a national application other than a CPA § 1.53(d);
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			.R. § 1.97(c), this information disclosure statement is filed after the periods 7 C.F.R. § 1.97(b), but before the mailing date of:
			a final rejection under 37 C.F.R. 1.113;
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		is acco	ompanied by:
			the statement as specified in 37 C.F.R. § 1.97(e) set out below; OR
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			a final action under 37 C.F.R. § 1.113;
			termination of prosecution, e.g. Ex Parte Quayle, M.P.E.P § 609(B)(2); OR
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Staten	nents Un	ider 37	C.F.R. 1.97(e)
			Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application having a mailing date not more than three months prior to the filing date of this information disclosure statement; or
			No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned attorney after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing date of the information disclosure statement.
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Non-En	glish L	anguage References
[An English-language search report or equivalent paper from a foreign patent office is provided indicating the relevance of the cited reference(s).
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[Translation of other relevant information on foreign search report
Other In	ıforma	tion_
No. 10/0 2003, Se July 18,	051,30 erial N 2003,	stant application is related to copending patent applications Serial 9, filed January 22, 2002, Serial No. 10/361,634 filed February 11, 10. 10/754,600, filed January 12, 2004, Serial No. 10/662,117, filed and Serial No. 10/715,819, filed November 19, 2003. Enclosed are aments cited in said related applications.
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Respectfully submitted,

Brion F. Heavey, Reg. No.; 32,542 Attorney/Agent for Applicants

MILLEN, WHITE, ZELANO & BRANIGAN, P.C.
Arlington Courthouse Plaza I 2200 Clarendon Blvd. Suite 1400 Arlington, Virginia 22201 Telephone: (703) 243-6333 Facsimile: (703) 243-6410

Attorney Docket No.: MEMORY-28

Date: March 12, 2004

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Substitute	for form 1449A/P	то		Complete if Known			
				Application Number	10/622,833		
INFO	RMATION	N DISCL	OSURE	Filing Date	July 21, 2003		
STAT	EMENT B	BY APP	LICANT	First Named Inventor	Richard A. SCHUMACHER et al		
				Group Art Unit	Unassigned		
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		5,622,977		Warrel	low et al.	04/22/199			
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Complete if Known Substitute for form 1449A/PTO 10/622,833 **Application Number** INFORMATION DISCLOSURE STATEMENT BY APPLICANT July 21, 2003 Filing Date Richard A. SCHUMACHER et al First Named Inventor Group Art Unit Unassigned (use as many sheets as necessary) Unassigned Examiner Name Attorney Docket Number MEMORY-28

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				U.S. 1	PATENT DOCUM	ENTS		
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		FR	2729142	Al	Nadler et al.	07/12/1996		
		EP	1116711	A2	Chassot et al	07/18/2001		
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	_	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS						
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		HEILMAN et al, "Synthesis and Antiinflammatory Evaluation of Substitued Isophthalonitriles, Trimesonitriles, Benzonitriles, and Terephthalonitriles", Journal of Medicinal Chemistry, 1978, Vol. 21, No. 9, pp. 906-913, XP-002226236						
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		JAMES E. KELLEY et al., "Antirhinovirus structure-activity relationships of 6-substituted-9-(4-methylbenzyl)-2-trifluoromethyl-9H-purines," <u>Eur. J. Med. Chem.</u> , 1990, pp. 131-135, Vol. 25						
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number 10/622,833

Filing Date July 21, 2003

First Named Inventor Richard A. SCHUMACHER et al Group Art Unit Unassigned

Examiner Name Unassigned

Attorney Docket Number MEMORY-28

(use as many sheets as necessary)

4 of 5

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item T 2 (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, Cite Examiner Initials * city and/or country where published. No 1 ROGER J. SCHILLING et al., "A High-Throughput Assay For Cyclic Nucleotide Phosphodiesterases," Analytical Biochemistry, 1994, pp.154-158, Vol. 215 DONALD V. DANIELS et al., "A Semiautomated Method for the Assay of Cyclic Adenosine 5'-Monophosphate Phosphodiesterase," Analytical Biochemistry, 1996, pp. 367-369, Vol. 236 JEAN-JACQUES BOURGUIGNON et al., "9-Benzyladenines: Potent and Selective cAMP Phosphodiesterase Inhibitors," J. Med. Chem, 1997, pp. 1768-1770, Vol. 40 JAMES L. KELLEY et al., "6-(Alkylamino)-9-alkylpurines. A New Class of Potential Antipsychotic Agents," J. Med. Chem., 1997, pp. 3207-3216, Vol. 40 HIROYUKI SAWANISHI et al., "Selective Inhibitors of Cyclic AMP-Specific Phosphodiesterase: Heterocycle-Condensed Purines", J. Med. Chem., 1997, pp. 3248-3253, Vol. 40 J.E. SOUNNES et al., "Proposal for Pharmacologically Distinct Conformers of PDE4 Cyclic AMP Phosphodiesterases", Cell Signal, 1997, pp. 227-236. Vol. 9, No. 3-4 MARY ELIZABETH BACH et al., "Age-related defects in spatial memory are correlated with defects in the late phase of hippocampal long term potentiation in vitro and are attenuated by drugs that enhance the cAMP signaling pathway", Proc. Natl. Acad. Sci. USA, April 1999, pp.5280-5285, Vol. 96 ELISABETH BOICHOT et al., "Anti-Inflammatory Activities of a New Series of Selective Phosphodiesterase 4 Inhibitors Derived from 9- Benzyladenine," The Journal Of Pharmacology And Experimental Therapeutics, 2000, pp. 647-653, Vol 292, No.2 Anil S. GURAM et al., "A Simple Catalytic Method for the conversion of Aryl Bromides to Arylamines," Angew. Chem. Int, Ed. Engl., 1995, Vol. 34, No. 12, pp. 1348-1350. Michael S. DRIVER et al., "A Second-Generation Catalyst for the Aryl Halide Amination: Mixed Secondary Amines from Aryl Halides and Primary Amines Catalyzed by (DPPF)PdCl₂," J. Am. Chem. Soc., 1996, Vol. 118, pp. 7217-7218. Takashi EGAWA et al., "Rolipram and its Optical Isomers, Phosphodiesterase 4 Inhibitors, Attenuated the Scopolamine-Induced Impairments of Learning and Memory in Rats," J. Pharmacol., Vol. 75, 275-281(1997). Peng WANG et al., "Expression, Purification, and Characterization of Human cAMP-Specific Phosphodiesterase (PDE4) Subtypes A, B, C, and D,"Biochem. And Biophys. Research Comm., Vol. 234, 320-324 (1997).

Examiner	[Date		`
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SPReet	5	of	5	Attorney Docket Number	MEMORY-28	

	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS								
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т:						
		JAMES E. KELLEY et al., "Antirhinovirus structure-activity relationships of 6-substituted-9-(4-methylbenzyl)-2-trifluoromethyl-9H-purines," <u>Eur. J. Med. Chem.</u> , 1990, pp. 131-135, Vol. 25							
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		John HARTWIG et al., "Room-Temperature Palladium-Catalyzed Amination of Aryl Bromides and Chlorides and Extended Scope of Aromatic C-N Bond Formation with a Commercial Ligand," J. Org. Chem., 1999, Vol. 64, pp. 5575-5580.							
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		T.W. Greene et al., <u>Protective Groups in Organic Synthesis</u> , 3 rd Edition, Chapter 3, "Protection for Phenols and Catechols," pp. 246-292, John Wiley & Sons, 1999							
		International Search Report from PCT Application No. PCT/US02/01508, dated January 16, 2003							

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